

ABSTRACT

An electrospray nozzle system is disclosed. The electrospray portion of the device comprises a substrate defining a channel between an entrance orifice on an injection surface and an exit orifice on an ejection surface, a nozzle defined by a portion recessed from the ejection surface surrounding the exit orifice, and an electrode for application of an electric potential to the substrate to optimize and generate an electrospray; and, optionally, additional electrode(s) to further modify the electrospray. The nozzle system may be utilized alone or as part of a liquid chromatography system.